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Sheet 1 of 2

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Title:

AN E-COMMERCE BASED METHOD AND SYSTEM FOR MANUFACTURER
HOSTING OF VIRTUAL DEALER STORES AND METHOD FOR PROVIDING A
SYSTEMIZATION OF MACHINE PARTS

- ☒ Fee Transmittal Form Attached in Duplicate
- ☒ Specification and Claim(s) [Total Pages]
- ☒ Drawing(s) [Total Sheets]

FORMAL

Declaration

[Total Pages]

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If a Continuing Application

☐ Continuation ☐ Divisional ☐ Continuation-In-Part (CIP)

of prior Application No.:

Examiner :

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;

; and

☐ Cancel Claims:

For Continuations or Divisional Applications only: The entire disclosure of the prior application, from which an oath or declaration is supplied, as set forth above, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.

Correspondence Address:

☒ Customer Number or Bar Code Label:

719

or

☐ Correspondence address below:

Name:

Address:

City:

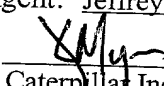
State:

Zip Code:

Country:

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Signature: 

Caterpillar Inc.

Date: 8/25/2000

Description

AN E-COMMERCE BASED METHOD AND SYSTEM FOR MANUFACTURER
HOSTING OF VIRTUAL DEALER STORES AND METHOD FOR
5 PROVIDING A SYSTEMIZATION OF MACHINE PARTS

This application claims the benefit of prior
provisional patent application Serial No. 60/193,871
filed March 31, 2000.

10 Technical Field

The present invention relates generally to
electronic commerce ("e-commerce") systems on the
Internet and, more particularly, to a system and
15 method whereby a manufacturer hosts a virtual dealer
store to provide real-time dealer-level inventory,
pricing, and sales to a consumer as well as providing
the consumer with a systemization of machine parts.

20 Background Art

The Internet is a convenient medium by which
consumers can have immediate access to complete
product and service information along with the ability
to purchase those products and services. In the past,
25 to provide e-commerce capabilities, many dealers
created virtual stores on their own dealer server
systems. Consequently, extensive upgrades and complete
infrastructure overhauls to their back-end systems
were often necessary. In addition, it was very

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difficult for particular consumers to locate the nearest and most cost-effective dealer. Moreover, because many consumers relate to a particular brand or manufacturer of a product, rather than the name of a specific dealer, some consumers are unable to locate dealers on the Internet selling the desired product, not to mention the nearest or most cost-effective dealer.

Furthermore, some manufacturers solely created and completely operated virtual stores for dealers thereby creating a necessity to separately synchronize the manufacturer's virtual store data with each corresponding dealer. Here, again, many back-end system upgrades and overhauls are required by the manufacturer and dealer. The costs associated with these upgrades and overhauls exponentially increase with each additional dealer the manufacturer connects to its virtual store due to continuous data synchronization requirements as well as maintenance of all manufacturer and dealer back-end systems. Moreover, real-time data regarding a particular dealer may be non-existent, unavailable, or inoperative with this configuration due to synchronizing delays with each dealer.

Consequently, past back-end configurations fail to provide immediate, low-cost, and secure access to virtual stores and electronic commerce systems without complete infrastructure overhauls. Some companies simply cannot afford to go back to the

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drawing board and completely revise the architecture
of critical systems because they greatly depend upon
existing infrastructure. What is needed, then, is a
method and system for a virtual store which is
5 accessible from a manufacturer's website that defines
a configuration and structure allowing use of existing
system infrastructure of a dealer while providing
real-time dealer specific information (pricing,
availability, descriptions) to the consumer without
10 interfacing the consumer directly with the older
infrastructure and systems.

Additionally, a front-end presentation of a
systemization of machine parts so that consumers may
properly and quickly select among various machine
15 parts is absent in the industry. Currently, machine
parts are sold in person or over the phone with the
aid of considerable cataloging documents requiring
significant resources and time. In instances where
part numbers or components are unknown, the mere
20 determination of the necessary machine parts may take
even longer. This may be much more time than a
consumer is willing to spend if he either only needs
an individual machine part or group of machine parts.
It would be helpful to have a means for consumers to
25 select specific groups or individual parts of machine
parts for purchase, or to assemble only the required
individual parts within a group of machine parts,
without the aid of another human being or physical
document. In addition, the number of different kinds

of machine parts for a single machine often makes it confusing for consumers to know which specific parts best meet their needs. Consequently, a front-end systemization of machine parts which allow consumers to properly and quickly select among various machine parts having different individual parts, groups, components, and systems is necessary.

The present invention is directed to overcoming one or more of the problems set forth above.

Disclosure of the Invention

In one aspect of this invention, an e-commerce based method for requesting information and purchasing products from a dealer through a manufacturer is disclosed. The method includes the steps of sending a request for detailed dealer information to a manufacturer server system using a client system, displaying real-time detailed dealer information on the client system based on the request, receiving the real-time detailed dealer information from the manufacturer server system, and accessing the real-time detailed dealer information with the manufacturer server system from a remote dealer server system via a middleware application system.

In another aspect of this invention, an e-commerce based system for requesting information and purchasing products from a dealer through a manufacturer is disclosed. The system includes a

client system, a manufacturer server system in communication with the client system, the manufacturer server system having a middleware application system, and a remote dealer server system in communication with the middleware application system to provide real-time detailed dealer information to the manufacturer server system via the middleware application system with the manufacturer server system sending the real-time detailed dealer information to the client system for displaying.

Brief Description of the Drawings

For a better understanding of the present invention, reference may be made to the accompanying drawings in which:

FIG. 1 illustrates a diagrammatic representation of the e-commerce system in accordance with the present invention, illustrating the major participants and primary electronic transactions that flow in the use of the system;

FIG. 2 illustrates an exemplary dealer's home page interface at a virtual dealer store;

FIG. 3 illustrates a personalized data interface screen utilized in a registration process at a virtual dealer store;

FIG. 4 illustrates a dealership interface screen providing links to other aspects of the virtual dealer store;

FIG. 5 illustrates a part ordering interface screen;

FIG. 6 illustrates a product type/product model/configuration types selection interface screen;

5 FIG. 7 illustrates a system component interface screen;

FIG. 8 illustrates a machine parts interface screen;

10 FIG. 9 illustrates the machine parts interface screen of FIG. 8 with a detailed schematic;

FIG. 10 illustrates the interface screen of FIG. 9 with selected parts;

15 FIG. 11 illustrates a "shopping cart" interface screen utilized by the consumer in ordering parts from the dealer;

FIG. 12 illustrates a "price list-pricing and availability" interface screen utilized by the consumer in ordering parts from the dealer;

20 FIG. 13 illustrates an "order summary" interface screen utilized by the consumer in ordering parts from the dealer; and

FIG. 14 illustrates a "thank you" screen for expressing appreciation to the consumer for ordering parts from the dealer.

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Best Mode for Carrying Out the Invention

A method and apparatus for providing a form of e-commerce via the Internet are described. In the following detailed description numerous specific

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details are set forth in order to provide a thorough understanding of the invention. However, it will be understood by those skilled in the art that the present invention may be practiced without these
5 specific details. For example, the invention is not limited in scope to any specific combination of hardware circuitry and software, software language, server environment, electronic communications network, or to any particular source for instructions executed
10 by the computer system. In other instances, well-known methods, procedures, components, and circuits have not been described in detail so as not to obscure the present invention.

The e-commerce virtual store system in
15 accordance with the present invention is an electronic information and sales system built from a combination of off-the-shelf hardware and software packages and custom software. It is intended to allow consumers to directly interact with dealers through a manufacturer,
20 rather than through purchasing agents or solely through the dealers themselves. One aspect of the present invention includes a technique by which a consumer can visit a manufacturer's website and purchase and receive information regarding various
25 products and services of a particular dealer. These and other aspects of the present invention will be described below in greater detail.

In one embodiment, the present invention is carried out in a computer system by a microprocessor

executing sequences of instructions contained in a memory. More specifically, execution of the sequences of instructions causes the microprocessor to perform steps of the present invention, which are described
5 below. The instructions may be loaded into RAM for execution by the microprocessor from a ROM or other storage device. Also, the instructions may be received by the computer system via a network from another computer system. In other embodiments, hardwired
10 circuitry may be used in place of, or in combination with, software instructions to implement the present invention.

In the present invention, there is a connection via the Internet between a client computer
15 system and a web server system. The client system executes a web browser software application which allows the client system to access Hypertext Markup Language ("HTML") web pages and other data on various web servers. Because the user of the client system may
20 be a consumer wishing to purchase parts or products, the web server preferably includes a shopping cart software application for allowing the consumer to purchase these products, or else, the server may provide a hypertext link to another server which
25 executes such software.

Furthermore, the client system of the present invention preferably includes a bus, a processor coupled with the bus for processing information, and a main memory, such as RAM or other

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dynamic storage device, coupled to the bus for storing information and instructions to be executed by the processor. The client system may further include ROM or other static storage device coupled to the bus for storing static information and instructions for the processor. A storage device, such as a magnetic disk or optical disk is also provided and coupled to the bus for storing information and instructions. The client system may also include a communication device and various input/output devices, such as monitors, keyboards, pointing devices, or printers, both being coupled to the bus. The communication device provides the client system with a connection to the Internet and may be a device suitable for such purpose, such as a telephone modem or ISDN adapter. It is understood that other details regarding the client computer system and architecture have been omitted so as to not obscure the present invention.

Referring now to FIG. 1, the e-commerce virtual store system of the present invention is generally indicated by numeral 10. The e-commerce virtual store system 10 allows a consumer or user to inquire about dealer-level inventory, pricing, sales information, or to purchase an item on-line, among other features.

In the present invention, the consumer's computer is a client system 20 and includes web browsing software. Using the web browsing software and Internet connection 25 a consumer can navigate through

the Internet to the manufacturer's website or directly to a dealer's website on the manufacturer's server system 30. Notably, if the consumer arrives at the manufacturer's website first, the consumer can easily
5 access any particular dealer's website because, in the preferred embodiment, the manufacturer's website includes all of the dealer's capability to provide such information and purchasing capabilities.

Initially, the dealer's website home page interface
10 screen, generally indicated by numeral 23 in FIG. 2, is shown with dealer identification information 28. The next step for the consumer is to either register through registration button 31 or to log-on as a registered consumer through log-on hyperlink 32. To
15 encourage registration for non-registered consumers, the advantages of registration are described and summarized, as generally indicated by numeral 14. The log-on hyperlink 32, after entering a proper username and password, will relocate the consumer to a screen
20 similar to the one depicted by numeral 29 in FIG. 4. During initial registration through the registration button 31, the consumer has an opportunity to create and individualize a personal webpage with personalized data on the personalized data interface screen 27, as
25 shown on FIG. 3. The consumer can select the specific type of industry news that he or she is interested in through an industry news input 36. Illustrative, but nonlimiting industries include: Agriculture 220; Construction 222; Engine (EPG) 224; Engine (Industrial

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OEM/Locomotive) 226; Engine (Marine) 228; Engine (Petroleum) 230; Engine (Truck) 232; Forestry 234; Heavy Construction 236; Industrial 238; Mining 240; Quarry/Aggregates 242; and Waste 244. In this
5 illustrative example, a checked input is provided to Industrial 238, Mining 240 and Waste 244. In addition, the consumer can select the specific location for weather for a series of U.S. or International cities through a weather input 37. Furthermore, the consumer
10 can track specific stocks or investments through a stock input 38. Hyperlinks to the consumer's favorite websites are also available through a hyperlinks input 39. After all of the personalized data is inputted, the consumer will then submit the information through
15 a submit button 33.

The consumer is then directed to a dealer interface screen that is generally indicated by numeral 29 in FIG. 4 and can be re-accessed by tab 47 having the exemplary title of "Our Dealership." The
20 dealer identification information 28 is again present on this dealer interface screen 29. The consumer name 15 is also present as well as a registration update link 16 that directs the consumer back to the personalized data interface screen 27 in FIG. 3 as
25 well as a consumer equipment listing link 17 that directs the consumer back to a screen listing the consumer's equipment (not shown). Also, there is an industry news link 41 and a link for the consumer's favorite hyperlinks 42 to other Internet websites.

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Furthermore, there is a general local, national and international news links 43 as well as the current weather conditions link 44. In this illustrative example, there is a first tier of buttons on the dealer interface screen 29 that includes a "Home" button 122, a "Company Profile" button 124 that provides a link to specific dealer information (not shown), a "Products" button 126 that provides a link to specific products offered by that particular dealer (not shown), a "Services" button 128 that provides a link to specific services offered by that particular dealer (not shown), and an "Industries" button 130 that provides a link to specific industries associated with that particular dealer (not shown).

There is an illustrative second tier of buttons located underneath the first tier of buttons described above. This includes another "Home" button 132 that directs the consumer to the manufacturer home page interface screen (not shown), a "Contact Us" button 134 that allows the consumers to send e-mail to the Dealer (not shown), a "Search" button 136 that allows the consumer to search the entire website and a "Help" button 138 that provides assistance to the consumer in utilizing the website. Contact Link 140 performs the same function as the "Contact Us" button 134. There are also a number of ancillary hyperlinks that include "Highlights" 142, "Dealer Products & Services" 144, "Dealer Industries" 146 and "Industry Talk" 148. All of these ancillary hyperlinks are self-

explanatory and will direct the consumer to additional informational screens that are not shown.

The consumer has the option of ordering parts directly from the dealer by selecting tab 45, which has the exemplary title of "PartStore". Upon selecting tab 45, the consumer is directed to a part ordering interface screen that is generally indicated by numeral 50, in FIG. 5, so that the consumer can order specific parts from the dealer. In the background, an example of a part is graphically displayed as indicated by numeral 51. A "PartStore Home" tab is indicated by numeral 71 and allows the consumer to return to this interface screen should it be desired.

The "Express Order" links, generally indicated by numerals 54 and 254, will direct the consumer to a shopping cart interface screen that is shown in FIG. 11 and generally indicated by numeral 56. The actual ordering of the part by the consumer will be described later.

The "Frequent Order Lists" links, generally indicated by numerals 58 and 258, will direct the consumer to a screen showing previously utilized part ordering lists (not shown). The "Part Store Procedures" link, generally indicated by numeral 60, will direct the consumer to a screen providing advice (not shown) on how to utilize the e-commerce virtual store system 10. The "Part Store Activity" link, generally indicated by numeral 62, will direct the

consumer to a screen that will provide the consumer with the records (not shown) of their prior use of the e-commerce virtual store system 10. The "Policies" link, generally indicated by numeral 64, will direct
5 the consumer to a screen that will provide the consumer with each respective Dealer's part sales policies (not shown).

To subsequently use the systemization of machine parts within the virtual dealer store to
10 purchase machine items, a consumer will then select the "Find Parts" links, generally indicated by numerals 52 and 252, thereby displaying a product type/product model/configuration interface such as that shown in FIG. 6 and generally indicated by
15 numeral 53. The consumer can then directly order parts as hereinafter described in further detail. The manufacturer server system 30 then collects information regarding the machine for which the consumer desires further information for the ultimate
20 objective of purchasing. In the preferred embodiment, the consumer enters, and the manufacture server system 30 collects, such machine information as product type 66 and product model 68. The resulting configuration types 70 are then displayed. After the specific
25 configuration type 70 is selected by the consumer, the consumer is then directed to a system component interface screen as generally indicated by numeral 72 in FIG. 7.

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Here the consumer, via the web browsing application, selects a system of machine parts from at least two available systems, as illustrated by "Step 1: Choose a System" 74 in FIG. 7. Based on the
5 selected system, the consumer then selects, from at least two different components, a component of machine parts, as shown by "Step 2: Choose a Component" 76 in FIG. 7. Based on the selected component, the consumer then selects, from at least one group of machine
10 parts, a group of machine parts 78, as shown on the right side of FIG. 7. A specific chosen group of machine parts is identified by numeral 82.

An equipment information link 79 will additionally direct the consumer to a screen providing
15 more information regarding the selected equipment (not shown). After selection of one chosen group of machine parts 82, the consumer is directed to an exemplary machine parts interface screen, generally indicated by numeral 80, such as that shown in FIG. 8. Here, the
20 description of the selected group of machine parts 82 and the name of the selected group of machine parts 81 are shown together. There are two main informational sections on this machine parts interface screen 80 with the chosen entire group of machine parts 84 and
25 individual parts 87, which compose the group of machine parts, thereby allowing the consumer to inquire or purchase either an entire group of parts or select from the individual parts that constitute the entire group. There are five columns of information

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that include a Reference 88, Quantity 90, Note 92, Part No. 94, and Part Name 96. Reference 88 provides some designation to either the part or group. Quantity 90 allows the consumer to select a desired quantity and input this value. Note 92 notifies the consumer that there is a link that allows the consumer to access additional information by clicking on the part number. Part No. 94 identifies a specific part number in the system and, if underlined, provides a hyperlink for the consumer to access additional information screens (not shown) and Part Name 96 provides an associated descriptor for a part number. Under the individual parts 87 portion of the machine parts interface screen 80 is a column 97 labeled "Req. Qty." which indicates the quantity required to replace or fix the part indicated. There is also a "Go Back" button 93 that allows the consumer to return back to the previous interface screen. Furthermore, if the consumer desires to view schematic drawings of the selected entire group or individual parts of the machine, with corresponding reference numerals, the link "View Parts Graphic" 98 will display such information. Selecting such link 98 will display the exemplary schematic screen interface found on FIG. 9 and generally indicated by reference numeral 85. The individual parts portion 87, in addition to displaying columns relating to part names, for example, illustrates reference numerals, as explained previously, which conveniently correspond to the

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schematic drawing 100 and further aid the consumer in quickly making the proper part selection.

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This method of systemization, then, provides a quick and easy to understand explanation of the different systems, components, groups and individual parts that can be selected to remedy a machine part in need of repair or replacement. It also prevents delay and incorrect ordering of particular groups or individual parts of machine parts by eliminating human miscommunications and confusion between a dealer and consumer. The method further allows a consumer to order select individual parts without having to order an entire group of machine parts. Consequently, a consumer can more economically purchase a variety of different individual machine parts for his particular needs. This systemization also allows a consumer to select a small and more affordable quantity of individual parts. The present invention's method of providing a systemization of machine parts to a consumer, therefore, allows for easy, accurate, convenient, and quick selection of machine parts.

After deciding whether a group and/or individual part(s) are desired, the consumer then selects the quantity of each group and/or individual part(s), as shown in FIG. 10. In this example, in the portion of the schematic screen interface 86 entitled entire group of machine parts 84, under the column entitled Reference 88, the designation "Grp" 266 appears, under the column entitled Quantity 90, the

input 267 is blank, under the column entitled Note 92, the designation is blank 268, under the column entitled Part No. 94, the part number "4N-9599" is listed 269, and under the column entitled Part Name 5 96, the part name "RADIATOR GP" is listed 270.

In this example, in the portion of the schematic screen interface 86, in the individual parts portion 87, in the first row, under the column entitled Reference 88, the designation "1" appears 10 271, under the column entitled Quantity 90, the input 272 is the numeral "1", under the column entitled Note 92, the designation is "Y" for yes 273, under the column entitled Part No. 94, the part number "7N-9061" is listed 274, and under the column entitled Required 15 Quantity 97, the quantity of one is listed 275 and under the column Part Name 94 the name "RADIATOR GROUP" is listed 276. Preferably, when a consumer clicks on input 272, for example, the required quantity of parts automatically appears inside input 20 272, without any additional input, to correlate with the quantity listed 275. If the consumer does not need or want the required quantity, he can easily change input 272 by entering the desired quantity.

In the second row in the individual parts 25 portion 87, under the column entitled Reference 88, the designation "2" appears 277, under the column entitled Quantity 90, the input 278 is the numeral "4", under the column entitled Note 92, a designation is not present 279, under the column entitled Part No.

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5 In the third row in the individual parts
portion 87, under the column entitled Reference 88,
the designation "3" appears 283, under the column
entitled Quantity 90, the input 284 has no numeral
present, under the column entitled Note 92, a
10 designation is not present 285, under the column
entitled Part No. 94, the part number "8N-4853" is
listed 286, and under the column entitled Required
Quantity 97, the quantity of "1" is listed 287 and
under the column Part Name 94, the name "GASKET" is
15 listed 288.

In the fourth row in the individual parts portion 87, under the column entitled Reference 88, the designation "4" appears 289, under the column entitled Quantity 90, the input 290 has the numeral "3" present, under the column entitled Note 92, a designation is not present 291, under the column entitled Part No. 94, the part number "0S-0509" is listed 292, and under the column entitled Required Quantity 97, the quantity of "3" is listed 293 and under the column Part Name 94, the name "BOLT" is listed 294.

In the fifth row in the individual parts portion 87, under the column entitled Reference 88, the designation "5" appears 295, under the column

entitled Quantity 90, the input 296 has the numeral "9" present, under the column entitled Note 92, a designation is not present 297, under the column entitled Part No. 94, the part number "5M-2894" is listed 298, and under the column entitled Required Quantity 97, the quantity of "9" is listed 299 and under the column Part Name 94, the name "WASHER" is listed 300.

In the sixth and final row illustrated in the individual parts portion 87 of the schematic screen interface 86, under the column entitled Reference 88, the designation "6" appears 301, under the column entitled Quantity 90, the input 302 has no numeral present, under the column entitled Note 92, a designation is not present 303, under the column entitled Part No. 94, the part number "5S-1213" is listed 304, and under the column entitled Required Quantity 97, the quantity of "1" is listed 305 and under the column Part Name 94, the name "PLATE" is listed 306.

When finished making the appropriate selections, the consumer is shown the items he or she has collected in a shopping cart via a shopping cart interface screen 56, as illustrated in FIG. 11. In the preferred embodiment, the shopping cart software application resides on the manufacturer server system 30. The shopping cart application allows the client system 20 to create a parts list 102 for purchasing or inquiring about products on-line. There are five

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15 In the first row in the portion of the shopping cart interface screen 56, under the column entitled Quantity 90, the input 290 has the numeral "3" present, under the column entitled Serial No. 106, an exemplary serial number appears 310, under the
20 column entitled Part No. 94, the part number "0S0509" is listed 292, under the column Part Name 94, the name "BOLT" is listed 294 and under the column Removal 112, a hyperlink Remove 312 is listed that allows the consumer to delete the item from the shopping cart
25 interface screen 56.

In the second row in the portion of the shopping cart interface screen 56, under the column entitled Quantity 90, the input 278 has the numeral "4" present, under the column entitled Serial No. 106,

an exemplary serial number appears 314, under the column entitled Part No. 94, the part number "1A2029" is listed 280, under the column Part Name 94, the name "BOLT" is listed 282 and under the column Removal 112, a hyperlink Remove 316 is listed that allows the consumer to delete the item from the shopping cart interface screen 56.

In the third row in the portion of the shopping cart interface screen 56, under the column entitled Quantity 90, the input 296 has the numeral "9" present, under the column entitled Serial No. 106, an exemplary serial number appears 318, under the column entitled Part No. 94, the part number "5M2894" is listed 298, under the column Part Name 94, the name "WASHER" is listed 300 and under the column Removal 112, a hyperlink Remove 320 is listed that allows the consumer to delete the item from the shopping cart interface screen 56.

In the fourth and final row in the portion of the shopping cart interface screen 56, under the column entitled Quantity 90, the input 272 has the numeral "1" present, under the column entitled Serial No. 106, an exemplary serial number appears 322, under the column entitled Part No. 94, the part number "7N9061" is listed 274, under the column Part Name 94, the name "RADIATOR GROUP" is listed 276 and under the column Removal 112, a hyperlink Remove 324 is listed that allows the consumer to delete the item from the shopping cart interface screen 56.

In addition, changes to the contents of the shopping cart 56 can be updated through button 114, the shopping list can be saved through button 116 and the shopping cart can be emptied through button 118.

5 It is also to be understood that in the preferred embodiment, a shopping cart application 56 does not physically reside on the remote dealer server system 40. This is because it is more efficient in terms of cost, real-time accessibility, and convenience, for
10 example, to have the web applications run on the manufacturer server system 30 rather than on the dealer server system 40, as will be explained in more detail below.

Accordingly, once a consumer or user has
15 navigated to the manufacture's website and selected a specific dealer, logged on, and collected in his shopping cart the desired items for inquiry or purchasing, the consumer's web browser can send the requested information over the Internet via Internet
20 connection 25 to the manufacturer server system 30 by selecting the "Price & Availability" link 120, as shown in FIG. 11, for example. Referring again to FIG. 1, the manufacturer server system 30, using the middleware application system 35, then passes the
25 requested information to the consumer-specified dealer server system 40, such as an International Business Machines Corporation's (hereinafter IBM®) AS/400®, for example. IBM® is located at New Orchard Road, Armonk, New York 10504. The dealer server system 40 collects

the requested information and returns the results back to the manufacturer server system 30 which sends the results to the consumer's client system 20 via the established Internet connection 25. In this manner, a consumer receives information and purchases items from actual dealers, not directly from the manufacturer. Additionally, this arrangement allows all dealers to have the advantage of publishing their own websites on the manufacturer server system 30 and acquiring consumer information for highly valued consumer relationship marketing purposes. Hereinafter, this process will be described in more detail.

Specifically, together with the manufacturer server system 30 and database 12 is a middleware application system 35 which includes a web application server, such as IBM®'s WebSphere®. The web application server within the middleware application system 35 is used to make connection with a Consumer Terminal Application ("CTA") within the specified dealer server system 40 to enable bi-directional communication during the transaction process, as will be explained in more detail below.

After the consumer has collected in his shopping cart the desired items and is ready to purchase or view detailed information on such parts or items, the consumer will place a quote by selecting the "Price & Availability" link 120, as shown in FIG. 11, and as explained above. As shown in FIG. 1, by placing a quote, a call is made to a servlet (i.e., a

small software program) in the web application server within the middleware application system 35. The shopping cart contents and other requested data are then converted into string format (using special
5 characters as delimiters) and are sent to the servlet. The servlet then extracts the data string and passes it to the middleware application system 35 which reads the string to determine which dealer it must connect to. The middleware application system 35, which is
10 implemented using a set of Java classes, that use, for example, IBM®'s Host Access Class Library® ("HACL"), then interacts with the requested dealer server system 40 via the CTA using its web application server. This particular implementation is necessary in order
15 provide real-time dealer specific information to the consumer without interfacing the consumer directly with the older dealer technology.

The middleware application system 35 thus first creates a new data object which is populated
20 with the shopping cart information retrieved from the passed string. After reading the string, the middleware application system 35 connects to the specified dealer server system 40 and creates and maintains a session between the particular dealer
25 server system 40 and the middleware application system 35, as explain previously. Again, this connection or session is made using IBM® HACL® technology, for example, which uses telnet to connect to the dealer server system 40 which provides an application program

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interface ("API") that enables screen recognition and screen interaction (i.e., reading/writing/keystroke entry) between the consumer and CTA without the consumer being exposed to such older, less user-friendly "green screens." More particularly, by sending only the requested information to the dealer server system 40, rather than interfacing directly with the dealer server system 40, the consumer takes advantage of real-time dealer server system data without being exposed to the dealer server system 40 "green screens" and without exposing the dealer server system 40 to any direct and prolonged Internet connections with the client system 20. An Internet connection 25 is only made from the web application server within the middleware application system 35 to the dealer server system 40 after the consumer has successfully logged onto the virtual dealer store. Thus, the centralized manufacturer server system configuration allows for dealer control and security over its virtual store and dealer server system 40. This design minimizes the communication overhead between the manufacturer server system 30 and the middleware application system 35 because the middleware application system 35 performs a set of operations that do not require direct interaction with the consumer.

After the information transfer is complete, the middleware application system 35 converts the data object into a string and returns this string to the

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calling servlet. The servlet then streams the string back to the manufacturer server system 30 which parses the string and gathers the information, such as availability, descriptions and pricing, and uses such
5 information to display the next page on the web browser of the consumer's client system 20, as shown in FIG. 12 on the "Parts List - Pricing and Availability" interface screen that is generally indicated by 330. In summary, then, once a quote is
10 requested by a consumer, the middleware application system 35 navigates through a set of screens in CTA, inputs the items, reads pricing, dealer-level inventory, and other data and returns this detailed dealer information to the consumer with a quote number
15 for tracking the particular consumer's request in the event an order is placed by the consumer. On the "Parts List - Pricing and Availability" interface screen 330, there is a portion dedicated to Order Details 332 including a consumer identification number
20 334, a tracking serial number 336, and a quote number 338. There is a section providing notes 340 regarding the order and an e-mail hyperlink 342 that allows orders to be placed with special instructions. There is a "Parts List" that is generally indicated by
25 numeral 344 with seven columns of information that include a Serial No. 106, Part No. 94, Quantity 90, Part Name 96, Availability 346, Unit Price 348 and Price 350. Serial No. 106 identifies a specific serial number prefix associated with selected part numbers.

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Part No. 94 identifies a specific part number in the system. Quantity 90 allows the consumer to utilize the previously selected desired quantity and automatically inputs this value. Part Name 96 provides the
 5 associated descriptor associated with each part number. Availability 346 provides valuable information on how long it will take to obtain a part and the location of the source of the part. Unit Price 348 will provide a cost per unit and Price 350 provides
 10 the aggregate price for the specified quantity of parts.

In the first row in the portion of the "Parts List" 344, under the column entitled Serial No. 106, the exemplary serial number is blank 310, under
 15 the column entitled Part No. 94, the part number "0S-0509" is listed 292, under the column Quantity 90, the input 290 has the numeral "3" present, under the column Part Name 96, the name "BOLT" is listed 294 and under the column Availability 346, the designation
 20 "Peoria - 1 day" 352 is present, under the column entitled Unit Price 348, a unit price of \$5.60 is present 354, and under the column designated Price 350, an aggregate price of \$16.80 is present 356.

In the second row in the portion of the "Parts List" 344, under the column entitled Serial No. 106, the exemplary serial number is blank 314, under
 25 the column entitled Part No. 94, the part number "1A-2029" is listed 280, under the column Quantity 90, the input 278 has the numeral "4" present, under the

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column Part Name 96, the name "BOLT" is listed 282 and under the column Availability 346, the designation "Moline - 1 day" 358 is present, under the column entitled Unit Price 348, a unit price of \$64.81 is present 360, and under the column designated Price 350, an aggregate price of \$259.24 is present 362.

In the third row in the portion of the "Parts List" 344, under the column entitled Serial No. 106, the exemplary serial number is blank 318, under the column entitled Part No. 94, the part number "5M-2894" is listed 298, under the column Quantity 90, the input 296 has the numeral "9" present, under the column Part Name 96, the name "WASHER" is listed 300 and under the column Availability 346, the designation "Moline - 1 day" 364 is present, under the column entitled Unit Price 348, a unit price of \$2.49 is present 366, and under the column designated Price 350, an aggregate price of \$22.41 is present 368.

In the fourth and final row in the portion of the "Parts List" 344, under the column entitled Serial No. 106, the exemplary serial number is blank 322, under the column entitled Part No. 94, the part number "7N-9061" is listed 274, under the column Quantity 90, the input 272 has the numeral "1" present, under the column Part Name 96, the name "RADIATOR GROUP" is listed 276 and under the column Availability 346, the designation "Peoria - 1 day" 370 is present, under the column entitled Unit Price 348, a unit price of \$264.81 is present 372, and under the

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column designated Price 350, an aggregate price of \$264.81 is present 374.

The total cost for all parts on the price list is tallied and generally indicated by numeral
5 375.

After the requested detailed dealer information and quote number are sent to the client system 20 and displayed, as shown in FIG. 12, the consumer may choose to continue to place an order by
10 selecting the "Continue" button 377. The order can also be cancelled by selecting the "Cancel Order" button 376. If an order is placed, the consumer is directed to the next page by the web browser of the consumer's client system 20, as shown in FIG. 13 on
15 the "Order Summary" interface screen that is generally indicated by 380. On this "Order Summary" interface screen 380, there is a portion dedicated to Order Details 332 including a quote number 338, consumer identification number 334, a tracking serial number
20 336, and a purchase order number 384. The new item not present on the preceding "Parts List - Pricing and Availability" screen 330 is the purchase order number 384 that is generated in conjunction with this specific transaction. As before, there is a "Parts
25 List" that is generally indicated by numeral 344 with seven columns of information that include a Serial No. 106, Part No. 94, Quantity 90, Part Name 96, Availability 346, Unit Price 348 and Price 350 with the same four rows of information as found on the

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preceding "Parts List - Pricing and Availability" screen 330. The shipping details are generally indicated by numeral 386 with a detailed shipping address 387 and detailed shipping instructions 388.

- 5 The notes 340 are again replicated from the preceding interface screen 330.

The consumer may choose to actually place an order by selecting the "Place Order" button 390 or the order can also be cancelled by selecting the "Cancel
10 Order" button 376. If an order is placed, the consumer is directed to the final page of the systemization method by the web browser of the consumer's client system 20, as shown in FIG. 14 on the "Thank You" interface screen that is generally indicated by 395.
15 This includes an order number 396 which is the same as the quote number 338 with a capital "C" replacing a capital "Q" within the number. There is verbiage explaining that the order was placed successfully 397 with a hyperlink 62 to PartStore activity. The next
20 verbiage is to notify the consumer that additional information may be required 399. There is then a hyperlink entitled "View Order Summary" 400 that can return the consumer to the preceding "Order Summary" interface screen 380 in order for the consumer to
25 review a summary of his or her purchase.

It is understood that other details regarding the placement of an order at the dealer server system 40 using the quote number have been omitted so as to not obscure the present invention.

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As explained above, the present invention's centralized manufacturer server system arrangement allows a consumer access to real-time detailed dealer information from a particular dealer server system 40 among multiple dealer systems twenty-four hours a day, 5 seven days a week, thereby offering robust information and purchasing capabilities without interfacing a consumer directly with older dealer technology and systems. Detailed dealer information preferably 10 includes such information as dealer-level inventory, pricing, and sales information, for example. If this information were stored on the manufacturer server system 30 or database 12, real-time data from numerous dealer databases would have to be consistently 15 accessed and synchronized to the manufacturer server system 30 and database 12 costing exponentially more than the present invention in terms of mandatory upgrading of dealer systems and increased maintenance and delay times of the virtual storefront. Hence, with 20 the centralized management server system arrangement of the present invention, dealers are freed from the burden of having to buy additional servers, worry about connections, security, or maintenance issues associated with creating an individual dealer web 25 server environment. Furthermore, the present invention's method of providing a systemization of machine parts to a consumer allows for easy, accurate, convenient, and quick selection of machine parts. This

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enables a consumer to order and inquire about parts without undue confusion or unnecessary delay.

While certain features of the invention have been illustrated as described herein, many
5 modifications, changes and equivalents will now occur to those skilled in the art. It is, therefore, to be understood that the appended claims, are intended to cover all such modifications and changes as fall
10 within the true spirit of the invention. It is also preferred that the present invention be limited not by the specific disclosure herein, but by the scope of the appended claims.

Industrial Applicability

15 The present invention is advantageously applicable in providing an e-commerce virtual store system, via a centralized manufacturer server system arrangement, to a consumer with the ability to view
20 real-time dealer level inventory, product descriptions, pricing, as well as purchase products electronically in a reduced dealer cost, increased dealer security, increased dealer control, and in a low-maintenance manner for the dealer. In addition,
25 the e-commerce virtual store system, via a systemization of machine parts, allows a consumer to efficiently select and assemble machine parts. Consequently, a dealer can efficiently provide a consumer with organized and valuable product information in addition to purchasing capabilities

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without having to make extensive back-end upgrades in terms of equipment, security, or maintenance while still retaining complete control over web site content and consumer relationship marketing.

- 5 Other aspects, objects and advantages of the present invention can be obtained from a study of the drawings, the disclosure and the appended claims.

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Claims

1. An e-commerce based method for requesting information and purchasing products from a dealer through a manufacturer, the method comprising:
- 5 sending a request for detailed dealer information to a manufacturer server system using a client system;
- 10 displaying real-time detailed dealer information on said client system based on said request;
- receiving said real-time detailed dealer information from said manufacturer server system; and
- 15 accessing said real-time detailed dealer information with said manufacturer server system from a remote dealer server system via a middleware application system.
2. The method of Claim 1, further including
- 20 sending a quote number from said remote dealer server system with said detailed dealer information for identifying said request.
3. The method of Claim 2, further including
- 25 purchasing an item with said client system that further includes the steps of:
- sending said quote number to said manufacturer server system;

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sending a confirmation number to said
manufacturer server system; and

10

15

20

25

7. The method of Claim 6, wherein said news is selected from the group consisting of local, national, international and industrial.

8. An e-commerce based system for requesting information and purchasing products from a dealer through a manufacturer, the system comprising:

a client system;

5 a manufacturer server system in communication with said client system, said manufacturer server system having a middleware application system; and

10 a remote dealer server system in communication with said middleware application system to provide real-time detailed dealer information to said manufacturer server system via said middleware application system with said manufacturer server system able to send said real-time detailed dealer
15 information to said client system for displaying.

9. The system of Claim 8, wherein said remote dealer server system sends a quote number with said detailed dealer information to said manufacturer
20 server system via said middleware application system.

10. The system of Claim 9, wherein said client system purchases an item by sending said quote number to said manufacturer server system, said
25 manufacturer server system then sends said quote number to said remote dealer server system via said middleware application system, said remote dealer server system then completes said purchase and sends a confirmation number to said manufacturer server

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system, said manufacturer server system then sends said confirmation number to said client system.

11. The system of Claim 8, said real-time
5 detailed dealer information is selected from the group consisting of dealer-level inventory, pricing, and sales information.

12. The system of Claim 8, wherein said
10 client system displays consumer personalized data received from said manufacturer server system.

13. The system of Claim 12, wherein said
15 consumer personalized data information is selected from the group consisting of weather, investments, stock portfolio, news and links.

14. The system of Claim 13, wherein said
20 news is selected from the group consisting of local, national, international and industrial.

15. An e-commerce based method for
requesting information and purchasing products from a dealer through a manufacturer, the method comprising:
25 creating an item list using a client system;
sending said item list to a manufacturer server system;

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displaying real-time detailed dealer
information on said client system based on said item
list;

receiving said real-time detailed dealer
5 information from said manufacturer server system; and
accessing said real-time detailed dealer
information with said manufacturer server system from
a remote dealer server system via a middleware
application system.

10

16. The method of Claim 15, further
including sending a quote number from said remote
dealer server system with said detailed dealer
information to identify the items listed on said item
15 list.

17. The method of Claim 16, further
including purchasing said items with said client
system further including the steps of:

20 sending said quote number to said
manufacturer server system;

sending said quote number with said
manufacturer server system to said remote dealer
server system via said middleware application system;
25 completing said purchasing with said remote
dealer server system;

sending a confirmation number to said
manufacturer server system; and

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sending said confirmation number with said manufacturer server system to said client system.

18. The method of Claim 15, wherein said
5 real-time detailed dealer information is selected from the group consisting of dealer-level inventory, pricing, and sales information.

19. The method of Claim 15, further
10 including displaying consumer personalized data received from said manufacturer server system on said client system.

20. The method of Claim 19, wherein said
15 client system consumer personalized data information is selected from the group consisting of weather, investments, stock portfolio, news and links.

21. The method of Claim 20, wherein said
20 news is selected from the group consisting of local, national, international and industrial.

22. An e-commerce based system for
requesting information and purchasing products from a
25 dealer through a manufacturer, the system comprising:
a client system for creating an item list;
a manufacturer server system for receiving
said item list; and

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a remote dealer server system for sending
real-time detailed dealer information to said
manufacturer server system via a middleware
application system based on said item list received
5 from said manufacture server system via said
middleware application system and said manufacturer
server system for sending said real-time detailed
dealer information to said client system for
displaying.

10

23. The system of Claim 22, wherein said
remote dealer server system for sending a quote number
to identify the item listed on said item list with
said detailed dealer information to said manufacturer
15 server system via said middleware application system.

24. The system of Claim 23, wherein said
client system for purchasing said item listed on said
item list by sending said quote number to said
20 manufacturer server system with said manufacturer
server system then sending said quote number to said
remote dealer server system via said middleware
application system, said remote dealer server system
then completing said purchase and sending a
25 confirmation number to said manufacturer server
system, said manufacturer server system then sending
said confirmation number to said client system.

25. The system of Claim 22, wherein said real-time detailed dealer information is selected from the group consisting of dealer-level inventory, pricing, and sales information.

5

26. The system of Claim 22, wherein said client system displays consumer personalized data received from said manufacturer server system.

10

27. The system of Claim 26, wherein said client system consumer personalized data information is selected from the group consisting of weather, investments, stock portfolio, news and links.

15

28. The system of Claim 27, wherein said news is selected from the group consisting of local, national, international and industrial.

20

29. An e-commerce based method of providing a systemization of machine parts to a consumer, said method comprising the steps of:

collecting information from said consumer regarding a machine;

selecting a system of machine parts from at least two available systems, wherein each of said available systems includes at least two different components of machine parts;

25

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selecting a component of machine parts,
wherein each of said available components includes at
least one group of machine parts;

selecting a group of machine parts, and
5 wherein each of said available systems, sections, and
group are adapted to correspond to machine parts
within said machine; and

providing information to said consumer
regarding machine parts which are included in said
10 selected system, section, and group thereby allowing
said consumer to use said systemization of machine
parts.

30. The e-commerce based method of Claim 29,
15 wherein said step of collecting information from said
consumer regarding a machine includes product, model,
and configuration type.

31. An e-commerce based method of providing
20 a systemization of machine parts to a consumer, said
method comprising:

collecting information from said consumer
regarding a machine;

selecting a system of machine parts from at
25 least two available systems, wherein each of said
available systems includes at least two different
components of machine parts;

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selecting a component of machine parts,
wherein each of said available components includes at
least two different groups of machine parts;

selecting a group of machine parts, wherein
5 each of said available groups is comprised of at least
one individual part of machine parts;

selecting an individual part of machine
parts, and wherein each of said available systems,
components, groups, and individual part are adapted to
10 correspond to machine parts within said machine; and

providing information to said consumer
regarding machine parts which make up said selected
system, component, group, and individual part thereby
allowing said consumer to use said systemization of
15 machine parts.

32. The e-commerce based method of Claim 31,
wherein said step of collecting information from said
consumer regarding a machine includes a product,
20 model, and configuration type.

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Abstract of the DisclosureAN E-COMMERCE METHOD AND SYSTEM FOR MANUFACTURER
HOSTING OF VIRTUAL DEALER STORES AND METHOD FOR
5 PROVIDING A SYSTEMIZATION OF MACHINE PARTS

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09640556 002500

10 An e-commerce based method for requesting
information and purchasing products from a dealer
through a manufacturer is disclosed. This method and
system includes sending a request for detailed dealer
information to a manufacturer server system using a
client system and displaying real-time detailed dealer
information on the client system based on the request,
the real-time detailed dealer information received
15 from the manufacturer server system, the manufacturer
server system accessing the real-time detailed dealer
information from a remote dealer server system via a
middleware application system.

FIG. 1

1/14

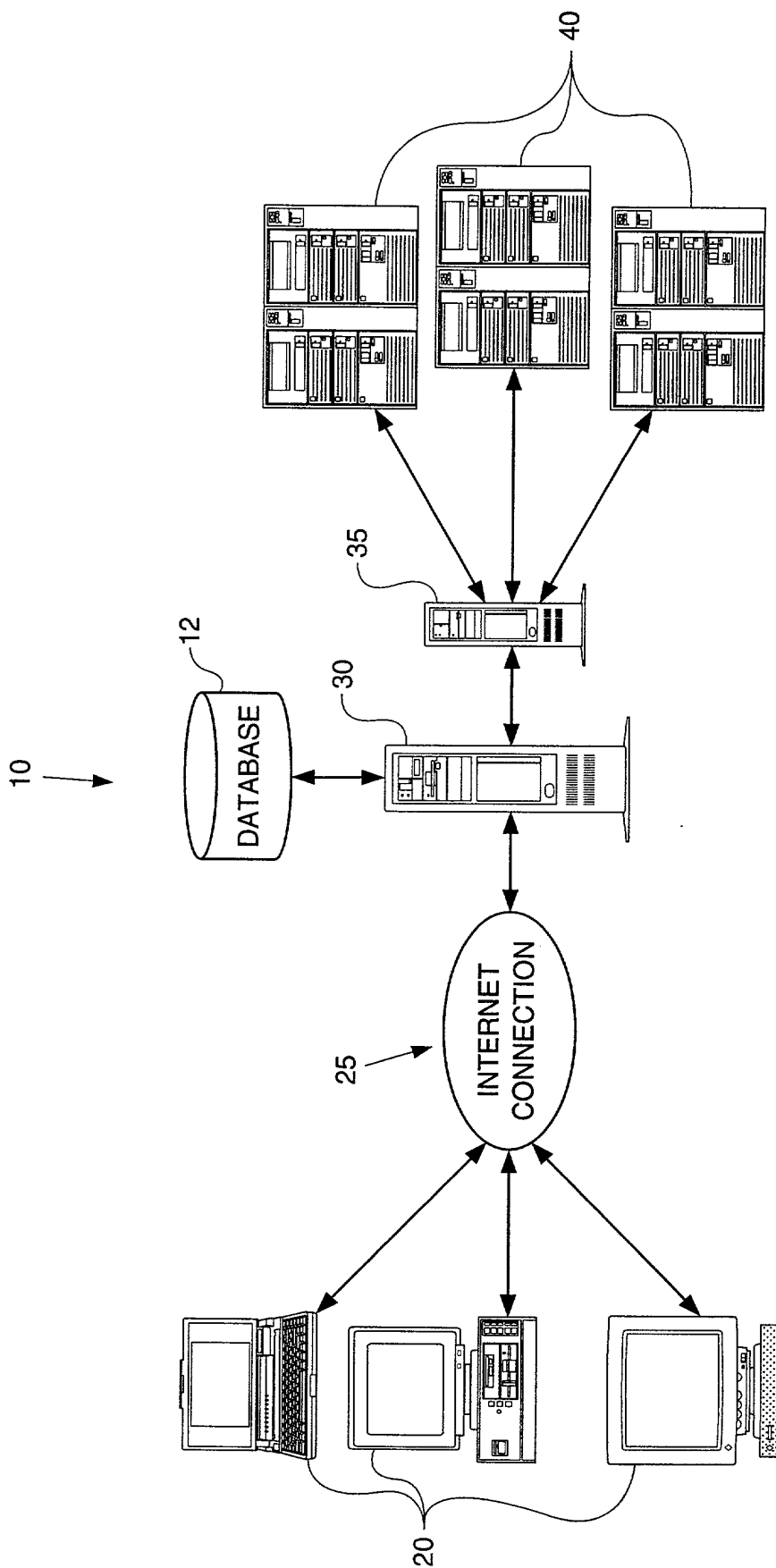


FIG. 2

122

124

HOME COMPANY PROFILE PRODUCTS SERVICES INDUSTRIES

126

128

130

47

Our Dealership

132

HOME CONTACT US SEARCH HELP

134

136

138

32

Login

► Login as registered user

Register

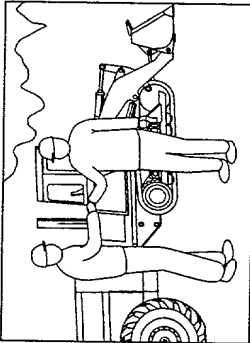
Site Registration Benefits

- Receive personalized content about the industries you are interested in
- Track your stock portfolio
- See local weather forecasts
- Read news in your selected regions
- Display your favorite links

31

JOIN NOW

DEALER



28

1234 Main St
Anywhere, IL 12345-1234

Tel: 1 614 878 2287 GENERAL INFO
1 888 441 4658 TOLL FREE
Fax: 1 614 851 5015 GENERAL INFO

142

► Jump to:

Highlights | Dealer Products & Services | Dealer Industries | Industry Talk

148

144

146

TOP ▲

140

Let us know what you would like to see on this site and the homesite in the future.

Registration

Your Profile Personalized Information Your Equipment

Customize Your Dealer Storefront

Please indicate the items below that interest you. Only selected items will appear on your Dealer Storefront.

INDUSTRIES

Please select the industries that interest you. Featured content such as articles and links will be personalized for you based on the inputs you select.

- ☐ Agriculture ~ 220 ☐ Forestry ~ 234
- ☐ Construction ~ 222 ☐ Heavy Construction ~ 236
- ☐ Engine (EPG) ~ 224 ☒ Industrial ~ 238
- ☐ Engine (Industrial OEM / Locomotive) ~ 226 ☒ Mining ~ 240
- ☐ Engine (Marine) ~ 228 ☐ Quarry / Aggregates ~ 242
- ☐ Engine (Petroleum) ~ 230 ☒ Waste ~ 244
- ☐ Engine (Truck) ~ 232

36

WEATHER

Select regions and cities for which you would like to see weather forecasts.

US City: OR International City:

1. ☒ Saint Paul, MN ☐ — Select —
2. ☒ Bellevue, WA ☐ — Select —
3. ☒ New York, NY ☐ — Select —

37

STOCKS

Stock Symbols

1. 3.
2. 4.

38

LINKS:

1. 3.

39

SUBMIT

33

Fig - 4 -

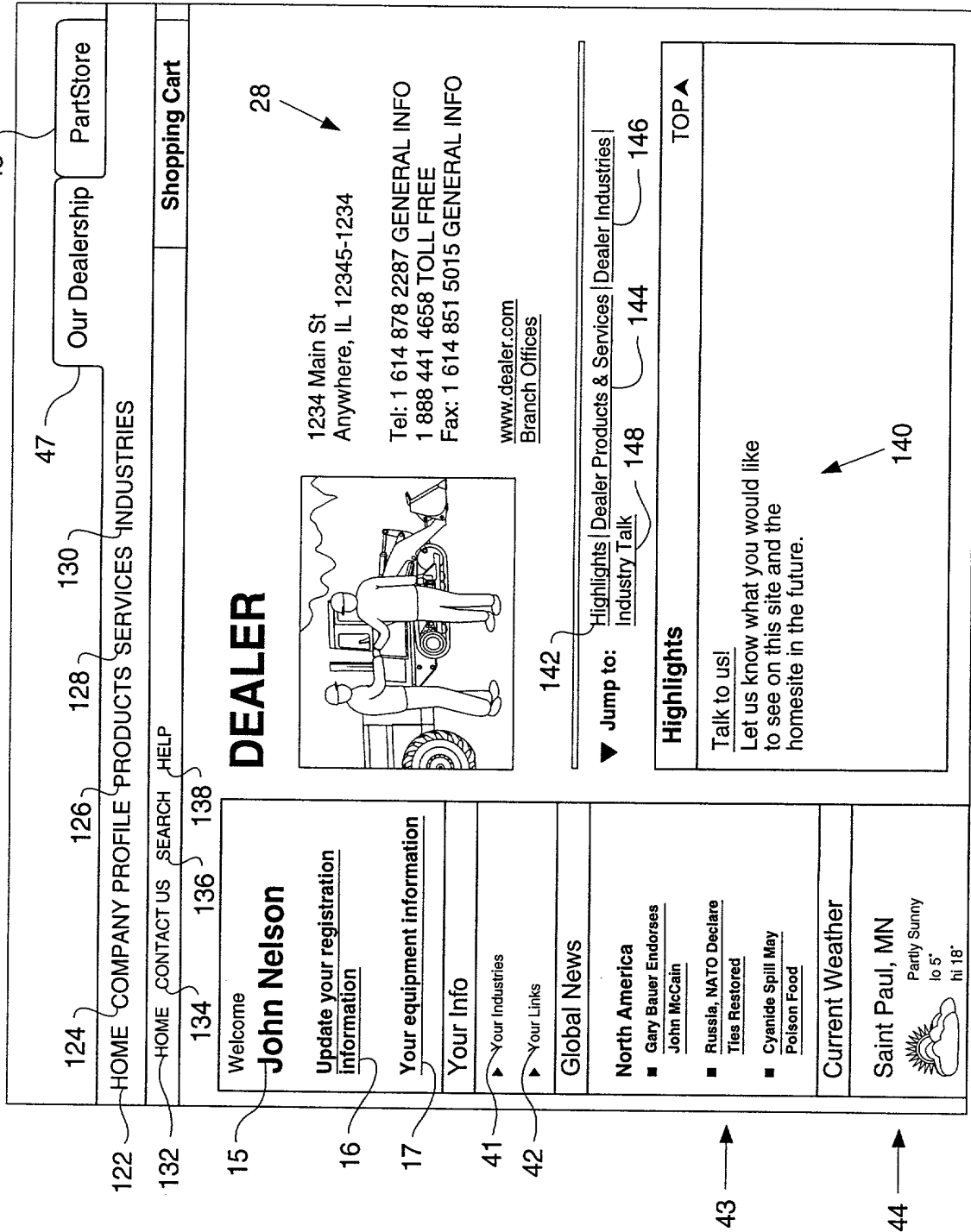
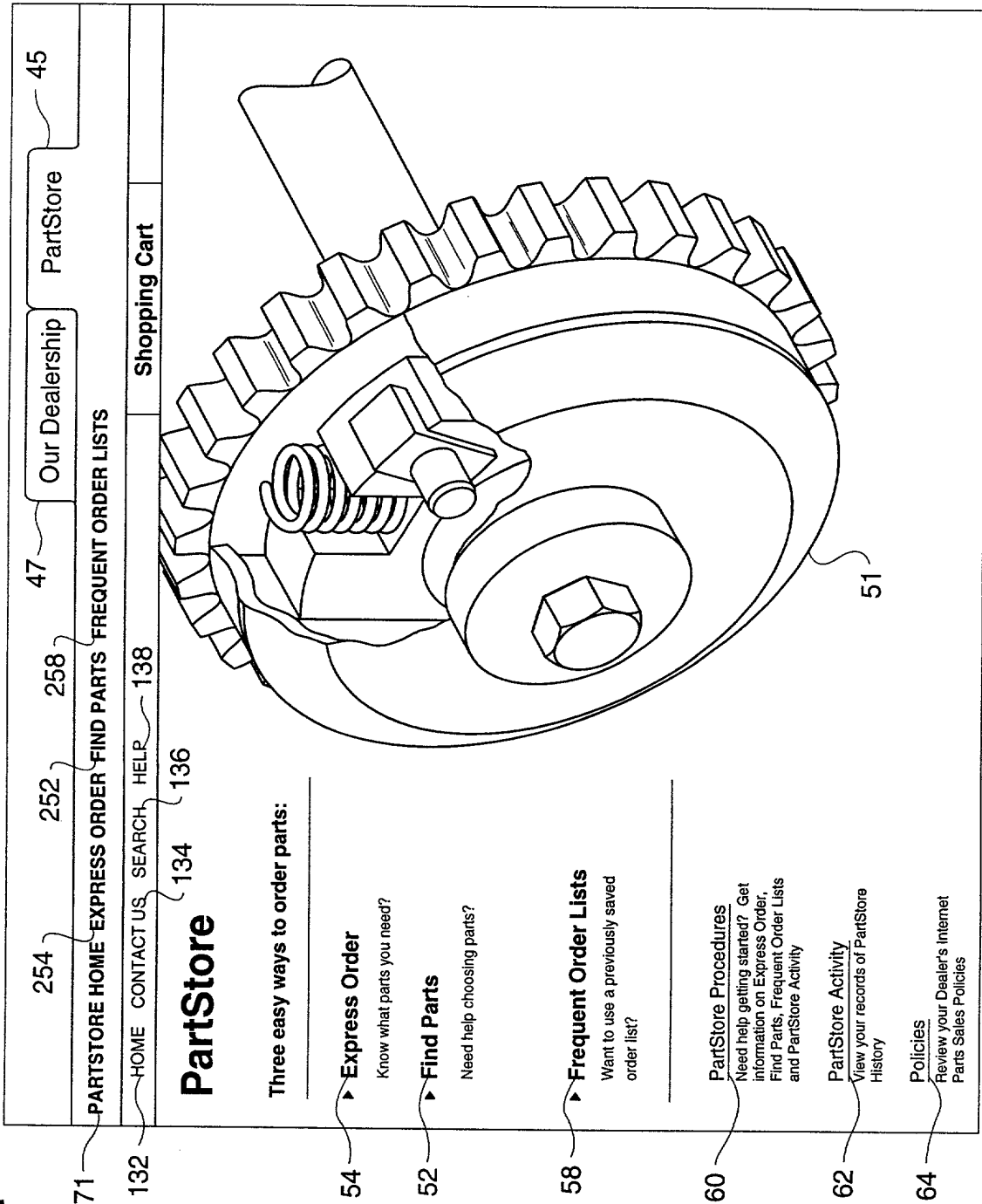


FIG. 5



HI-E-

254		252	258	47	Our Dealership	PartStore	45
PARTSTORE HOME EXPRESS ORDER FIND PARTS FREQUENT ORDER LISTS							
HOME		CONTACT US	SEARCH	HELP	138		
134		136					
Shopping Cart							
<div>Step 1 : Choose a Product</div> <div>BULLDOZER</div>							
<div>Step 2 : Select a Product Model</div> <div>80W 10U BULLDOZER</div>							
<div>Please select a configuration for this model:</div> <div>Note: Choose configuration carefully, Selecting the wrong configuration may result in an incorrect parts order.</div> <div>D10 TRACTOR/POWER SHIFT/ 76X359-UP (MACHINE) POWERED BY D348 ENGINE</div> <div>10C, 10S AND 10U BULLDOZERS 80W1-493</div> <div>D10 TRACTOR/POWER SHIFT/ 84W610-UP (MACHINE) POWERED BY D348 ENGINE</div>							
<div>53</div>							

66

68

70

77-7-

71	254	252	258	47	PartStore	45
132	PARTSTORE HOME EXPRESS ORDER FIND PARTS FREQUENT ORDER LISTS					
	HOME	CONTACT US	SEARCH	HELP	Shopping Cart	
79	134	136	EQUIPMENT — (View equipment information) ◀ Model: D10 TRACK-TYPE TRACTOR 76X			
74	Step 1 : Choose a System COOLING SYSTEM					
76	Step 2 : Choose a Component RADIATOR GP					
	78 4W-8286 — CONVERSION GP - RADIATOR 4W8286 — CONVERSION GP - RADIATOR CORE STIFFENER FIELD INSTALLATION 1989/07/01 1N3599 — COVER GP - PROTECTION 1N3599 PROTECTION COVER GROUP - RADIATOR CAP SERIAL NO. 76X359 - UP & 84W622, 625 TO 640, 646 & 84W648 - UP PART OF 4N9588 RADIATOR GROUP SHOWN ON PAGE 37B 1988/07/01 4N-9588 — RADIATOR GP 4N9588 — RADIATOR GROUP - PART 1 OF 2 S/N 76X359 - 367 & 84W622, 625-640, 646, 648 -986, 7N9061 - PAGE 38 1988/07/01 PART 2 OF 2 72					



71

254

252

258

47

Our Dealership

PartStore

45

132

PARTSTORE HOME EXPRESS ORDER FIND PARTS FREQUENT ORDER LISTS

134

HOME CONTACT US SEARCH HELP 138

Shopping Cart

79

136

EQUIPMENT — (View equipment information)

GO BACK

93

Model: D10 TRACK-TYPE TRACTOR 76X

81

4N9588 RADIATOR GP

84

4N9588 RADIATOR GROUP-PART 1 OF2

88

S/N 76X359, 367 & 84W622, 625-640, 646

90

648-986, 7N9061-PAGE 38

82

87

ENTIRE GROUP

92

80

View Parts Graphic

266

267

268

269

4N-9588

RADIATOR GP

270

94

Main Part No.

96

Part Name

97

INDIVIDUAL PARTS

271

1

Y

7N-9061

274

1

RADIATOR GROUP

276

272

273

280

275

(Separate Illustration)

277

2

1A-2029

281

4

BOLT

282

284

3

8N-4853

286

1

GASKET

287

283

4

0S-0509

293

3

BOLT

288

289

5

5M-2894

292

9

WASHER

294

295

296

297

298

299

300

FIG. 9

71

132

79

100

254

252

258

47

Our Dealership

PartStore

45

PARTSTORE HOME EXPRESS ORDER FIND PARTS FREQUENT ORDER LISTS

HOME CONTACT US SEARCH HELP 138

134

136

EQUIPMENT — (View equipment information)
◀ Model: D10 TRACK-TYPE TRACTOR 76X

GO BACK

93

Shopping Cart

85

84

87

82

92

94

96

270

269

268

267

266

ENTIRE GROUP

97

INDIVIDUAL PARTS

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

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287

288

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298

299

300

301

302

303

304

305

306

4N9588 RADIATOR GROUP-PART 1 OF 2
S/N 76X359, 367 & 84W622, 625-640,646
648-986. 7N9061-PAGE 38

88

Ref.

Qty.

Note

Main Part No.

Part Name

90

Grp

4N-9588

269

RADIATOR GR

270

266

267

268

271

Ref.

Qty.

Note

Main Part No.

Part Name

272

7N-9588

274

1

RADIATOR GROUP

275

277

278

279

1A-2029

280

4

BOLT

281

282

283

3

285

8N-4853

286

1

GASKET

287

288

290

4

291

0S-0509

292

3

BOLT

293

294

289

5

297

5M-2894

298

9

WASHER

299

300

1

PLATE

301

296

302

303

304

305

306

FIG-10-

254 252 258 47 Our Dealership PartStore 45

71 PARTSTORE HOME EXPRESS ORDER FIND PARTS FREQUENT ORDER LISTS

132 HOME CONTACT US SEARCH HELP 138

79 EQUIPMENT -- (View equipment information)
 Model: D10 TRACK-TYPE TRACTOR 76X

134 136

GO BACK 93

86 84 10/14 87

4N9588 RADIATOR GROUP-PART 1 OF2
 S/N 76X359, 367 & 84W622, 625-640,646
 648-986. 7N9061-PAGE 38

ENTIRE GROUP 94

88 Ref. Qty. Note Main Part No. Part Name 96
 90 Grp 4N-9588 269 RADIATOR GP 270
 266 267 268

INDIVIDUAL PARTS 97

Ref.	Qty.	Note	Main Part No.	Part Name
271	1		7N-9588	RADIATOR GROUP
272	1		273	275
277	2		279	280
284	4		1A-2029	BOLT 281 282
283	3		8N-4853	GASKET 287 288
290	4		0S-0509	BOLT 293 294
289	5		5M-2894	WASHER 299
295	6		5S-1213	PLATE 300
296			303	305
301			302	306

VIEW OF AREA A

VIEW B-B



 Ministry of Education, Culture and Sports

PartStore Checkout

Shopping Cart

Parts List - Pricing & Availability

Order Details

Customer ID: 20000 338 Quote Number: 03Q0000005

Tracking Serial Number:

(Use this number when communicating with us to discuss this quote)

Parts List

Serial No.	Part No.	Qty.	Part Name*	Availability	Unit Price	Price
94	90	96	346	348		
292	OS-0509	3	290 Bolt	294	Peoria - 1 day	352 5.60 354 16.80
280	1A-2029	4	278 Bolt	282	Moline - 1 day	358 64.81 360 259.24
298	5M-2894	9	296 Washer	300	Moline - 1 day	364 2.49 366 22.41
274	7N-9061	1	272 Radiator Group	276	Peoria - 1 day	370 264.81 372 264.81
TOTAL **						563.26

Note:

† Indicates this part is non-returnable

* Part Names shown above may vary from the names shown in the Shopping Cart

** This quote does not include taxes, shipping and handling charges

Send Email Order

Send order to us via email with special instructions. We will contact you about this order.

CANCEL ORDER

CONTINUE

119-13-

332

338

334

336

384

106

310

314

318

322

Shopping Cart

Order Summary

386

Order Details

387

388

94

90

96

346

348

350

356

362

368

374

375

380

344

376

390

340

PartStore Checkout

Shipping Address:

John Nelson
C/O ACME CONSTRUCTION
5555 W. ELMWOOD AVENUE
P.O. BOX 2000

Shipping Instructions:

PEORIA, IL 61604

Shipping Mode: none

Parts List

Serial No.

Qty.

Part No.

Part Name*

Availability

Unit Price

Price

Note:

† Indicates this part is non-returnable

* Part Names shown above may vary from the names shown in the Shopping Cart

** This quote does not include taxes, shipping and handling charges

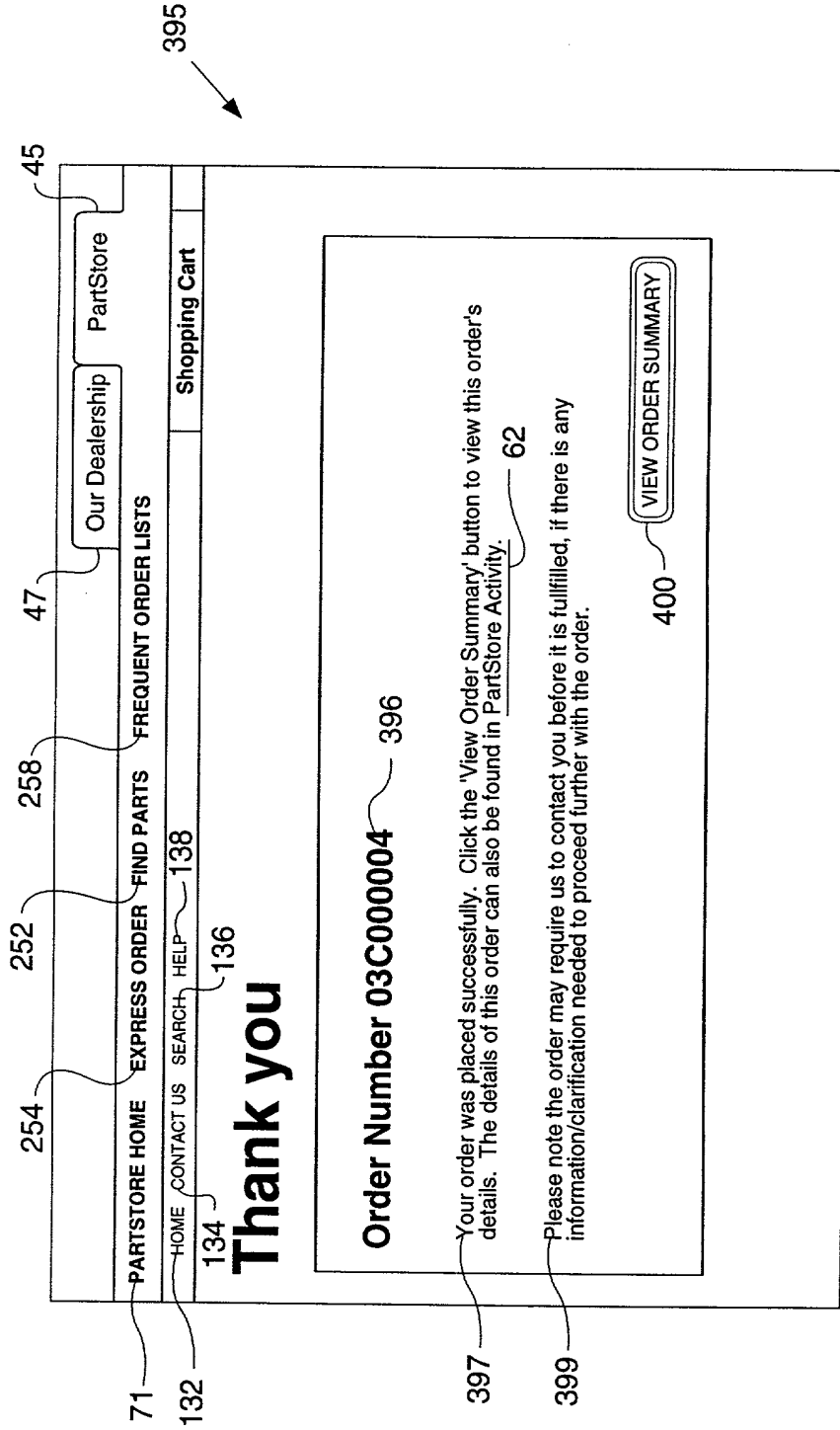
CANCEL ORDER

PLACE ORDER

TOTAL**

563.26

Serial No.	Qty.	Part No.	Part Name*	Availability	Unit Price	Price
292	3	0S-0509	Bolt	Peoria - 1 day	5.60	16.80
282	4	1A-2029	Bolt	Moline - 1 day	64.81	259.24
298	9	5M-2894	Washer	Moline - 1 day	2.49	22.41
274	1	7N-9061	Radiator Group	Peoria - 1 day	264.81	264.81
272	276					
270						
372						
TOTAL**						563.26



DECLARATION AND POWER OF ATTORNEY

We, Thomas T Buzzzell, Daniel T Driscoll, and Richard I Hartman, declare that we are citizens of the United States of America, residing respectively at East Peoria, Illinois; Peoria, Illinois; and Peoria, Illinois, and that we believe we are the original, first, and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled:

AN E-COMMERCE BASED METHOD AND SYSTEM FOR MANUFACTURER HOSTING OF VIRTUAL DEALER STORES AND METHOD FOR PROVIDING A SYSTEMIZATION OF MACHINE PARTS

the specification of which is attached hereto.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims.

We hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:


Provisional Application Serial Number: 60/193,871


Provisional Application Filing Date: March 31, 2000

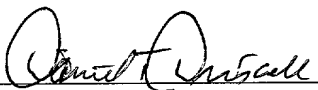
We acknowledge the duty to disclose to the Patent and Trademark Office all information known to be material to patentability as defined in §1.56. We further declare that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by us or our legal representatives or assigns.

We hereby appoint Jeffrey L. Myers, Patent Office Reg. No. 44,252, telephone (309) 636-1843, Joseph W. Keen, Patent Office Reg. No. 28,432, telephone (309) 675-5753, Robert J. Hampsch, Patent Office Reg. No. 36,155, telephone (309) 675-5214, and R. Carl Wilbur, Patent Office Reg. No. 36,056, telephone (309) 675-5847, our attorneys and/or agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected with this application. Please address all correspondence to: Jeffrey L. Myers, Caterpillar Inc., Intellectual Property Department, AB6490, 100 N.E. Adams Street, Peoria, Illinois 61629-6490.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.


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